Michael William Healy-Kalesh (He/Him/His)

Astrophysics Research Institute, 146 Brownlow Hill, Liverpool, L3 5RF, United Kingdom

Postdoctoral Research Assistant in Classical & Recurrent Novae

Email - M.W.HealyKalesh@ljmu.ac.uk

https://orcid.org/0000-0001-6337-6871

Website - https://www.astro.ljmu.ac.uk/~arimheal/

im/His) Sep 2021 – Present

EMPLOYMENT	Postdoctoral Research Assistant in Classical & Recurrent NovaeSepLJMU Astrophysics Research Institute, Liverpool, UK	o 2021 – Present		
EDUCATION	LJMU Astrophysics Research Institute, Liverpool, UK			
	 Doctor of Philosophy in Astrophysics Oct 2 Thesis: Novae, the Super-Remnant Phenomenon, and the Link to Type Ia Supernovae Supervisors: Dr. Matthew Darnley, Dr. Christopher Copperwheat, Prof. Philip James 	2017 – Sep 2021		
	 Master of Science in Astrophysics Graduated with Distinction 	2015 – Oct 2016		
	University of Liverpool, Liverpool, UK			
	 Master of Mathematics with Honours in Mathematics Graduated with First Class Honours 	2011 – Jul 2015		
JOURNAL PUBLICATIONS	 Healy-Kalesh M. W., Proceedings of Science, submitted – Association between Recurrent Novae and Nova Super-Remnants 			
	 Healy-Kalesh M. W., Darnley M. J., Shara M. M., Lanzetta K. M., Garland J. T. and Gromoll S., 2024, MNRAS, 529, 236 – Hydrodynamic simulations of the KTEridani nova super-remnant 			
	 Shara M. M., Lanzetta K. M., Garland J. T., Gromoll S., Valls-Gabaud D., Walter F. M., Webb J. K., Kniazev A., Townsend L., Darnley M. J., Healy-Kalesh M. W., Corral-Santana J. and Schmidtobreick L., 2024, MNRAS, 529, 224 – Introducing the Condor Array Telescope: IV. A possible nova super-remnant surrounding the putative recurrent nova KT Eridani 			
	 Healy-Kalesh M. W., Darnley M. J., Harvey É. J. and Newsam A. M., 2024, MNRAS, 529, L175 – Discovery of a nova super-remnant cavity surrounding RS Ophiuchi 			
	• Healy-Kalesh M. W., Darnley M. J., and Shara M. M., 2024, MNRAS, 528, 3531 – On an apparent dearth of recurrent nova super-remnants in the Local Group			
	• Healy-Kalesh M. W., and Perley D. A., 2023, RNAAS, 7, 240 – AT 2023prq: A Classical Nova in the Halo of the Andromeda Galaxy			
	• Healy-Kalesh M. W., Darnley M. J., Harvey É. J., Copperwheat C. M., James P. A., Andersson T., Henze M. and O'Brien T. J., 2023, MNRAS, 521, 3004 – On the observability of recurrent nova super-remnants			
	 Healy M. W., Darnley M. J., Copperwheat C. M., Filippenko A. V., Henze M., Hestenes J. C., James P. A., Page K. L., Williams S. C. and Zheng W., 2019, MNRAS, 486, 4334 – AT 2017fvz: a nova in the dwarf irregular galaxy NGC 6822 			
	 Darnley M. J., Hounsell R., O'Brien T. J., Henze M., Rodríguez-Gil P., Shafter A. W., Shara M. M., Vaytet N. M. H., Bode M. F., Ciardullo R., Davis B. D., Galera-Rosillo R., Harman D. J., Harvey É. J., Healy M. W., Ness JU., Ribeiro V. A. R. M. and Williams S. C., 2019, Nature, 565, 460 – A recurrent nova super-remnant in the Andromeda galaxy 			
CONFERENCES & TALKS	 Invited General Talk, The Golden Age of CVs and Related Objects VI, Palermo, Italy Contributed Talk, National Astronomy Meeting 2023, Cardiff University, UK Contributed Talk, European Astronomical Society Annual Meeting 2022, Valencia, Spa Invited Seminar Talk, University College London MSSL, UK (Virtual) Contributed Talk, National Astronomy Meeting 2021, University of Bath, UK (Virtual) Contributed Talk, National Astronomy Meeting 2019, University of Lancaster, UK Research Summary Talk, UK Nova Group Meeting 2019, Jodrell Bank Observatory, UI Invited Talk, The First ARI MSc Workshop, Liverpool, UK 	Oct 2021 Jul 2021 Jul 2019		

PROFESSIONAL ACTIVITIES	 Reviewing Responsibilities Reviewer for The Astrophysical Journal Reviewer for Monthly Notices of the Royal Astronomical Society Internal panel member for the Liverpool Telescope Time Allocation Group 	Aug 2023 – Mar 2023 – Apr 2022 –	
	Departmental Responsibilities		
	 PDRA representative at Equality, Diversity & Inclusion meetings PDRA representative at Departmental Management Board meetings 	Apr 2022 – Apr 2022 –	
	• PDKA representative at Departmental Management Board meetings	Api 2022 –	
TEACHING EXPERIENCE		May 2023 Oct 2021 – Dec 2021 Oct 2019 – Dec 2019 Nov 2018 – Mar 2019 Feb 2018 – Mar 2018	
AWARDS &	 Adult MHFA Half Day Certificate of Attendance, MHFA England 	Dec 2018	
SCHOLARSHIPS	 Course provided an introduction to mental health and the factors that can affect people's wellbe Science and Technology Facilities Council PhD Studentship Funding for postgraduate research 	eing 2017 – 2021	
	 Liverpool John Moores University Faculty of Engineering and Technology Studen Funding for postgraduate research 	ntship 2017 – 2021	
	 JG Oldroyd Prize, University of Liverpool For special merits in the examinations in Applied Mathematics and Theoretical Physics 	Jul 2015	
OBSERVING TIME	 Awarded 96 hours with Liverpool Telescope as Principal Investigator Awarded 7 hours with Faulkes Telescope South as Principal Investigator Awarded 6 ks with <i>Swift</i> as Principal Investigator Awarded 17 orbits with <i>Hubble Space Telescope</i> as Co-Investigator 		
PROFESSIONAL	 Member of the European Astronomical Society 	2024 – Present	
AFFILIATIONS	 Honorary Recognised Teacher of the University of Liverpool 	2022 – Present	
	Junior Member of the International Astronomical UnionAssociate Fellow of The Higher Education Academy	2022 – Present 2018 – Present	
	 Honorary Lecturer of the University of Liverpool 	2010 - 1103010 2018 - 2021	
	 Fellow of The Royal Astronomical Society 	2017 – Present	
OUTREACH	 Research Project Supervisor, Astrophysics Research Institute Work Experience W Invited Guest Talk, My Online Schooling (Virtual) 	/eek Jul 2023 Nov 2021	
SKILLS	${ m PT}_{ m E}$ X, Python, PyRAF, Fortran (Novice), HTML (Novice), Starlink packages, Microsoft Office		
ACADEMIC REFEREES	 Prof. Matthew Darnley Professor of Time Domain Astrophysics Associate Dean for Education – Faculty of Engineering Technology Head of Astrophysics Teaching – Astrophysics Research Institute LJMU Astrophysics Research Institute 146 Brownlow Hill, Liverpool, L3 5RF, UK Email: M.J.Darnley@ljmu.ac.uk 		
	• Prof. Michael Shara Curator, Department of Astrophysics, American Museum of Natural History Adjunct Professor of Astrophysics at Columbia University Honorary Professor, Chemistry at Queen's University Belfast American Museum of Natural History/Astrophysics Central Park West at 79th Street, New York, NY 10024, USA Email: mshara@amnh.org		